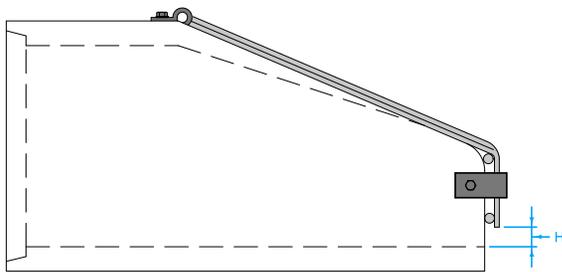
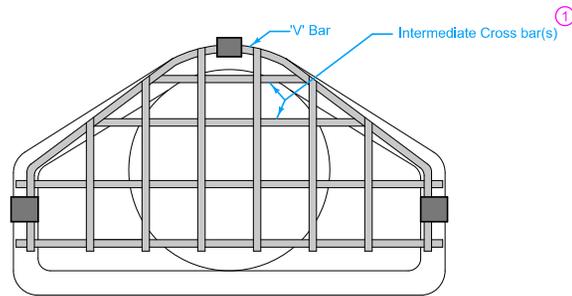


PLAN



PROFILE



FRONT

ROUND		ARCH	
PIPE SIZE	H	PIPE SIZE	H
12"	2½"	22" x 14" to 29" x 18"	4"
15"	3"	37" x 23" to 44" x 27"	5"
18" - 24"	4"	52" x 32" to 65" x 40"	6"
27" - 36"	5"	73" x 45" to 88" x 54"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

BAR SIZES				
	PIPE SIZE	HOLE DIA. REQ'D.	BOLT DIA.	BAR SIZE
ROUND	12" - 24"	¾"	¾"	¾"
	27" - 48"	7⁄8"	¾"	1"
	54" - 90"	1 1⁄8"	1"	1 1⁄4"
ARCH	up to 29" x 18"	¾"	¾"	¾"
	37" x 23" to 59" x 36"	7⁄8"	¾"	1"
	65" x 40" to 88" x 54"	1 1⁄8"	1"	1 1⁄4"

BOLT LENGTH = PIPE WALL THICKNESS + 2½"

Provide guard dimensions to fit with Type of apron provided (DR-201 or DR-202). V Bar is to completely rest on apron.

Use ASTM A615, Grade 40, or merchant quality, smooth or deformed steel bars in construction of the guard. Comply with fabrication requirements of Section 2404 of the Standard Specifications.

Hot-dip galvanize the completed apron guard according to ASTM A123.

Use bolts, nuts, washers, and fasteners complying with Article 4153.06 of the Standard Specifications.

- ① All guards are to have at least one intermediate cross bar. If pipe size is 60 inches or greater, use two intermediate cross bars equally spaced.

Possible Tabulation:  
104-3

	REVISION
	New 04-21-15
<b>STANDARD ROAD PLAN</b>	<b>DR-213</b>
SHEET 1 of 1	
REVISIONS: New, replaces RF-26.	
<small>APPROVED BY DESIGN METHODS ENGINEER</small>	
<b>PIPE APRON GUARD</b>	